

Promoting the science of learning

Australian Education Research Organisation

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The challenge

- Australian students' performance on international assessments is declining, in national assessments performance is stagnating, and there are growing equity gaps.
- Teachers need further support to teach for maximum impact so that all students, in all classrooms, in all schools, benefit from the highest quality teaching.
- Despite strong evidence on which teaching practices have been proven to make a difference, implications for teaching are not well understood or implemented in schools.

We are making the case for the science of learning

Research evidence demonstrates there are some practices that benefit all students:

- sequencing learning so students can access their prior knowledge to reduce cognitive load
- explicitly paced instruction with modelling and examples to help ease the burden on working memory
- classrooms that focus on routines for learning so students can develop positive dispositions for learning.



The opportunity

- For practitioners:
 - Build awareness and understanding of the science of learning and implications for teaching practices
- For policymakers:
 - Build on interest in science of learning to embed evidence-based teaching practice in strategies and policies

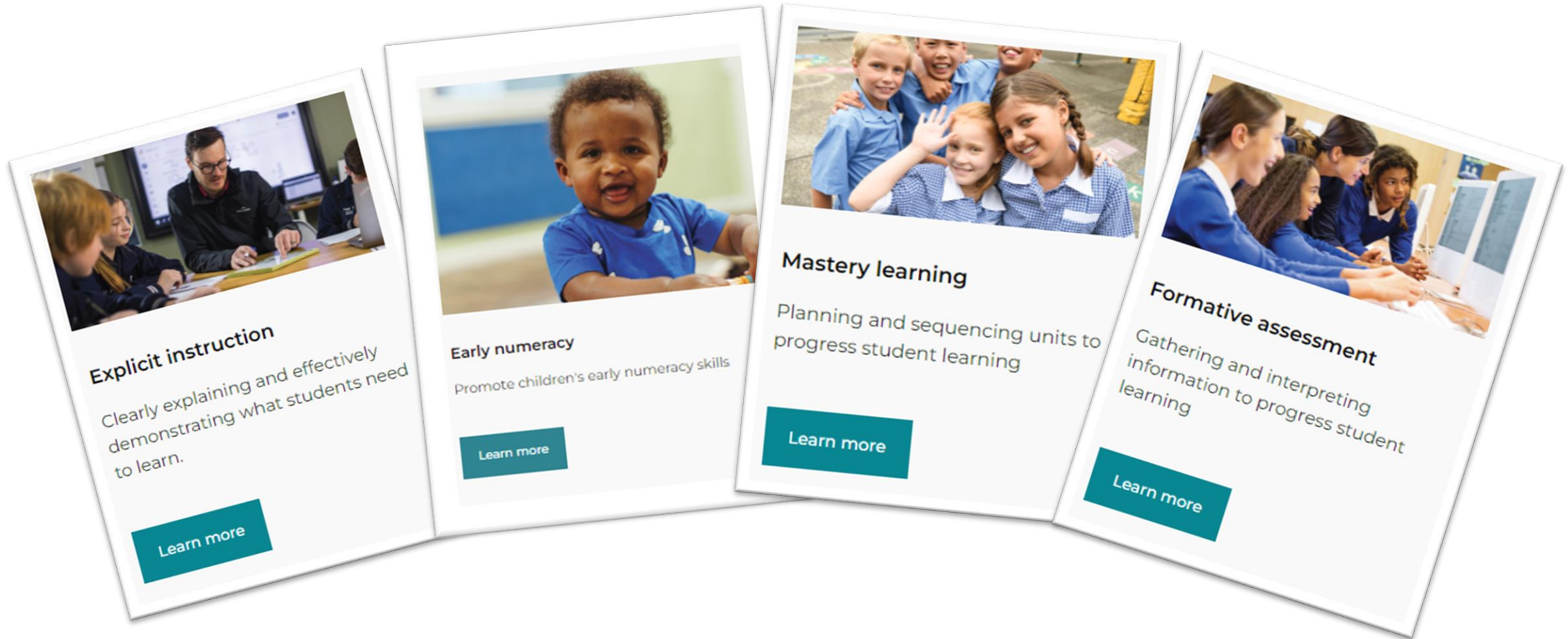
Our 'Tried and Tested' guides outline what we know works

- **Formative assessment** - know where your students are in their learning
- **Explicit instruction** - know how to teach your students
- **Mastery learning** - know how to make sure your students learn
- **Focused classrooms** - managing the classroom to maximise learning
- **Spacing and retrieval practice** - how to improve students' long-term retention of learning



Visit: edresearch.edu.au/resources

Our practice hub brings together evidence-based, practical resources in one central location



edresearch.edu.au/practice-hub

What next?

AERO will produce comprehensive guidance on evidence-based, high-quality instruction, and supporting resources.

An evidence-based ‘model of teaching and learning’ will help teachers, leaders and systems understand:

- practical implications for teaching
- how evidence-based practices ‘fit’ together
- application for maximum impact on student outcomes.

Collaborative program of work



engage with
stakeholders and
experts



synthesise the
evidence and develop
guidance



learn from small-
scale
implementation



disseminate and
promote



evaluate the impact

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